

Mithril Resources NL Geophysical Survey Processing Report

June 2011

Project: Tibbs & Basil

Table of Contents

1.	Datı	um Specification	3		
2.	Para	allax	4		
3.	Mag	Magnetic processing			
	3.1	Processing Flow			
	3.2	Compensation	5		
	3.3	Diurnal Base Value	5		
	3.4	Magnetic Model	5		
	3.5	Tie Line levelling Method	6		
	3.6	Micro-levelling Method	6		
	3.7	Interpolation Method	6		
4.	Rad	liometric Processing	8		
	4.1	Processing Flow	8		
	4.2	Window Energy Limits	8		
	4.3	Spectral Stripping Ratios	g		
	4.4	Tie Line Levelling	9		
	4.5	Micro-levelling Method	g		
	4.6	Interpolation Method	g		
5.	Elev	vation Processing	11		
	5.1	Processing Flow	11		
	5.2	Tie Line levelling Method	11		
	5.3	Micro-levelling Method	11		
	5.4	Adjust to AHD	12		
	5.5	Interpolation Method	12		
6.	Deli	verable Items	13		
	6.1	Final Magnetic Located Data file	14		
	6.2	Final Radiometric Located Data file			
	6.3	Final 256 Radiometric Data	17		
7.	Mag	netic Data Processing Flow Chart	20		
8.	Elev	vation Data Processing Flow Chart	21		
9.	Rad	liometric Processing Flow Chart	22		

1. Datum Specification

The output survey coordinates are based on the Geocentric Datum of Australia 1994 (GDA94), zone 53.

It has the following parameters:

Projection name: Map Grid of Australia

Datum: Geocentric Datum of Australia (GDA94)

Reference Frame: ITRF92 (International Terrestrial Reference 1992)

Epoch: 1994.0 Ellipsoid: GRS80

Semi-major axis: 6.378.137.0 metres

Inverse flattening: 298,257222101 False Northing: 10,000,000 m N False Easting: 500,000 m E

Scale Factor: 0.9996

Processing Report Page 3 of 22

2. Parallax

Parallax corrections were applied as follows:

- 1. variable fiducials for magnetics data.
- 2. 0.5 fiducials for radiometric data.
- 3. variable fiducials for dtm

Processing Report Page 4 of 22

3. Magnetic processing

3.1 Processing Flow

The diurnal base station data was checked for spikes and steps, and suitably filtered prior to the removal of diurnal variations from the aircraft magnetic data.

The diurnal data was filtered with a second difference filter to identify and remove spikes of less than 0.05nT. A second smoothing filter, a 13 point moving average filter is used to reduce noise levels.

The filtered diurnal are then applied to the survey data by synchronising the diurnal data time with the aircraft survey time. The average diurnal base station value was added to the survey data.

An eighth difference filter was run on the raw magnetic survey data in order to identify any remaining spikes in the data, which were manually edited from the data.

The X and Y positioning of the data was then checked for spikes before applying the IGRF correction. Any spikes in the positions were manually edited.

The IGRF 2010 (updated to 2011.44) correction was calculated at each data point taking into account the height above sea level using a constant altitude. This regional magnetic gradient was subtracted from the survey data points.

The data was then tie-line levelled and micro-levelled.

3.2 Compensation

The data was delivered already compensated and filtered.

3.3 Diurnal Base Value

The average diurnal base value was 53,147.48 nT

3.4 Magnetic Model

IGRF was removed using a constant height 0 kms above sea level. The magnetic model for the centre of each area is detailed below:

Model	IGRF 2010 updated to 2011.44
Declination	5.2354 degrees
Inclination	-54.8813 degrees
Field strength	52839.42 nT
Grid zone	53
Grid central meridian	135.00000 degrees
Input latitude	-23.32729 degrees
Input longitude	135.31128 degrees
Grid convergence	0.12326 degrees
Grid magnetic angle	5.35871 degrees
Secular variation	-0.03819 degrees

Processing Report Page 5 of 22

3.5 Tie Line levelling Method

Tie line levelling was applied to the data by least squares minimisation, using a polynomial fit of order 0, of the differences in elevation values at the crossover points of the survey traverse and tie line data.

The least squares tie line levelling process employs a two pass Gauss-Seidel iterative scheme. The essential steps in this process are:

In the first pass the tie lines were first adjusted to minimise, in the least squares sense, the crossover values with the traverse line values being held constant.

The second pass held the levelled tied line values constant, and minimised in the least squares sense, the crossover values with traverses.

The DC correction values are then applied to the traverse line and tie line data.

To reduce the effects of radar altimeter and gps errors on the recorded elevation data at the crossover points, data having a radar altimeter difference greater than 100 metres in a radius of 100 metres on the traverse or tie lines were excluded from the tying process.

3.6 Micro-levelling Method

Micro-levelling techniques were then selectively applied to the tie line levelled data to remove minor residual variations in profile intensity Selective micro-levelling was applied in order to leave unaffected any data having no residual levelling artefacts. Selective micro-levelling proceeds using the following steps:

Areas of interest that required micro-levelling were identified through the use of image processing visualisation.

Polygons were used to define areas requiring micro-levelling.

"Pseudo-ties" were constructed from the gridded data by extracting traverses from the grid normal to the flight direction.

Line dependent artefacts were removed from the pseudo lines using custom filters.

Crossover values were calculated between traverse lines and pseudo tie lines.

The traverse lines were adjusted in the pre-defined sections to minimise the crossover values.

This process was repeated in order to remove various wavelength line dependent artefacts from the pseudo-ties. The object of each micro-levelling iteration was to produce a smooth control surface to which the traverse lines are levelled. This control surface was provided through the use of "pseudo-ties".

3.7 Interpolation Method

The interpolation used is a minimum curvature algorithm. The algorithm is based on the worked published by Briggs 1974, Briggs I. C.: Machine contouring using minimum curvature. *Geophysics*. Vol. 39, No. 1. February 1974. pp. 39-48.

The algorithm has been modified to include a tension parameter based on the work published by Smith and Wessel Smith, W. H. F, and P. Wessel, 1990, Gridding with continuous curvature splines in tension, Geophysics 55, 293-305.

A tension factor of 0 was used to interpolate the magnetics

Processing Report Page 6 of 22

The mesh size for data interpolation was 10 x 10 metres.

Processing Report Page 7 of 22

4. Radiometric Processing

4.1 Processing Flow

The processing steps radiometric data were as follows:

- 1. Application of necessary parallax corrections to data
- 2. Check radar altimeter data for spikes
- 3. NASVD spectral smoothing
- Examine the output to determine the number of components required.
- Select 8 components for spectral reconstruction.
- 4. Standard 256 channel radiometric corrections:
- Dead-time correction performed on 256 channel data.
- Check if energy recalibration required
- Remove background radon from window data using Minty's method (1996)
- Perform STP height corrected spectral stripping
- Perform STP height correction of window data to average survey height (40 m).
- 5. Micro-levelling

Spectral smoothing was applied using the NASVD process, and spectral reconstruction was employed using 8 spectral components.

Micro-levelling was applied in the method as described below.

4.2 Window Energy Limits

The energy bounds for the windows were

Window Name	Energy Range (Mev)
Potassium	1.374 – 1.566
Thorium	2.416 – 2.799
Uranium	1.662 – 1.854
Total Count	0.414 – 2.799

Processing Report Page 8 of 22

4.3 Spectral Stripping Ratios

The stripping ratios used in the processing were:

Alpha	0.277
Beta	0.408
Gamma	0.776
a	0.045
b	0.001
g	0.000

4.4 Tie Line Levelling

No tie line levelling was applied.

4.5 Micro-levelling Method

Micro-levelling techniques were then selectively applied to the tie line levelled data to remove minor residual variations in profile intensity Selective micro-levelling was applied in order to leave unaffected any data having no residual levelling artefacts. Selective micro-levelling proceeds using the following steps:

Areas of interest that required micro-levelling were identified through the use of image processing visualisation.

Polygons were used to define areas requiring micro-levelling.

"Pseudo-ties" were constructed from the gridded data by extracting traverses from the grid normal to the flight direction.

Line dependent artefacts were removed from the pseudo lines using custom filters.

Crossover values were calculated between traverse lines and pseudo tie lines.

The traverse lines were adjusted in the pre-defined sections to minimise the crossover values.

This process was repeated in order to remove various wavelength line dependent artefacts from the pseudo-ties. The object of each micro-levelling iteration was to produce a smooth control surface to which the traverse lines are levelled. This control surface was provided through the use of "pseudo-ties".

4.6 Interpolation Method

The interpolation used is a minimum curvature algorithm. The algorithm is based on the worked published by Briggs 1974, Briggs I. C.: Machine contouring using minimum curvature. *Geophysics*. Vol. 39, No. 1. February 1974. pp. 39-48.

Processing Report Page 9 of 22

The algorithm has been modified to include a tension parameter based on the work published by Smith and Wessel Smith, W. H. F, and P. Wessel, 1990, Gridding with continuous curvature splines in tension, Geophysics 55, 293-305.

A tension factor of 0 was used to interpolate the radiometrics.

The mesh size for data interpolation was 10 x 10 metres.

Processing Report Page 10 of 22

5. Elevation Processing

5.1 Processing Flow

The processing steps for digital elevation data were as follows:

- 1. Application of necessary parallax corrections to data
- 2. Calculation of raw digital elevation data by subtracting the radar altimeter from the gps altitude
- 3. Tie line levelling
- 4. Micro-levelling

5.2 Tie Line levelling Method

Tie line levelling was applied to the data by least squares minimisation, using a polynomial fit of order 0, of the differences in elevation values at the crossover points of the survey traverse and tie line data.

The least squares tie line levelling process employs a two pass Gauss-Seidel iterative scheme. The essential steps in this process are:

In the first pass the tie lines were first adjusted to minimise, in the least squares sense, the crossover values with the traverse line values being held constant.

The second pass held the levelled tied line values constant, and minimised in the least squares sense, the crossover values with traverses.

The DC correction values to be applied to the traverse lines and tie lines were then applied to the magnetic data.

To reduce the effects of radar altimeter and gps errors on the recorded elevation data at the crossover points, data having a radar altimeter difference greater than 10 metres in a radius of 100 metres on the traverse or tie lines were excluded from the tying process.

5.3 Micro-levelling Method

Micro-levelling techniques were then selectively applied to the tie line levelled data to remove minor residual variations in profile intensity Selective micro-levelling was applied in order to leave unaffected any data having no residual levelling artefacts. Selective micro-levelling proceeds using the following steps:

Areas of interest that required micro-levelling were identified through the use of image processing visualisation.

Polygons were used to define areas requiring micro-levelling.

"Pseudo-ties" were constructed from the gridded data by extracting traverses from the grid normal to the flight direction.

Processing Report Page 11 of 22

Line dependent artefacts were removed from the pseudo lines using custom filters.

Crossover values were calculated between traverse lines and pseudo tie lines.

The traverse lines were adjusted in the pre-defined sections to minimise the crossover values.

This process was repeated in order to remove various wavelength line dependent artefacts from the pseudo-ties. The object of each micro-levelling iteration was to produce a smooth control surface to which the traverse lines are levelled. This control surface was provided through the use of "pseudo-ties".

5.4 Adjust to AHD

N values were removed in real time in the GPS receiver.

5.5 Interpolation Method

The interpolation used is a minimum curvature algorithm. The algorithm is based on the worked published by Briggs 1974, Briggs I. C.: Machine contouring using minimum curvature. *Geophysics*. Vol. 39, No. 1. February 1974. pp. 39-48.

The algorithm has been modified to include a tension parameter based on the work published by Smith and Wessel Smith, W. H. F, and P. Wessel, 1990, Gridding with continuous curvature splines in tension, Geophysics 55, 293-305.

A tension factor of 0 was used to interpolate the dtm.

The mesh size for data interpolation was 10 x 10 metres.

Processing Report Page 12 of 22

6. Deliverable Items

The deliverable items included all digital data. The located data conformed to ASEG-GDF format and the gridded data was suppled in ERMapper format. The description of the located data is below:

There were three areas's supplied:

Tibbs Basil

Located data supplied in ASEG GDF

File name	Definition
*_magdtm	Raw magnetics & elevation data
*_rad256	Raw 256 channel data
*_rads	Final Radiometric Window Data

Gridded data supplied in ER Mapper format

File name	Definition	Units
*_TMI	Final magnetic gridded data	nT
*_ELEV	Final elevation gridded data	m
*_TOT	Final radiometric dose rate gridded data	CPS
*_POT	Final radiometric potassium gridded data	CPS
*_TH	Final radiometric uranium gridded data	CPS
*_URA	Final radiometric thorium gridded data	CPS

^{*} Denotes the area name as described above

Processing Report Page 13 of 22

6.1 Final Magnetic Located Data file

```
COMM
COMM Baigent Geosciences Pty. Ltd.
COMM -----
COMM
COMM LOCATED DATA
COMM -----
COMM Area : Mithril Resources
COMM Company Flown by: Daishsat Pty. Ltd.
COMM Company Flown for: Tibbs & Basil
COMM Company Processed: Baigent Geosciences Pty. Ltd.
COMM AIRBORNE SURVEY EQUIPMENT:
COMM -----
                                    : Robinson R44
COMM Aircraft
                                    : Geometrics G822 Cesium Vapour
COMM Magnetometer
COMM Magnetometer Resolution : 0.001 nT

COMM Magnetometer Compensation : Post Flight

COMM Magnetometer Sample Interval : 10 Hz, Approx 2.2 metres
COMM Data Acquisition
                                    : GeoOZ Model 2009
COMM Spectrometer
                                    : Radiation Solutions RS 500
COMM Crystal Size
                                    : 16 lt downward array
COMM Crystal Size : 10 It downward array : 1.0 Seconds (approx 44 metres)
COMM GPS Navigation System
                                    : Novatel 951R GPS Receiver
COMM
COMM
COMM
COMM AIRBORNE SURVEY SPECIFICATIONS
COMM
COMM Tibbs
                            : 090 - 270 degrees
: 50 metres
COMM Flight Line Direction
                                                50 metres
COMM Flight Line Separation
                                        000 - 180 degrees
COMM Tie Line Direction
COMM Tie Line Separation
                                                500 metres
COMM Basil
                            : 030 - 210 degrees
COMM Flight Line Direction
COMM Flight Line Separation
                                    : 120 - 300 degrees
COMM Tie Line Direction
                                                500 metres
COMM Tie Line Separation
                                     :
                                          40 metres (MTC)
COMM Terrain Clearance
                                     :
COMM
COMM
COMM Survey flown
                                                   June 2011
COMM
COMM
COMM FFlight path calculated from GPS data with no differential correction.
COMM
COMM
COMM Grid notation refers to GDA/MGA Zone 53
COMM
COMM
COMM MAGNETIC DATA CORRECTIONS:
```

Processing Report Page 14 of 22

```
COMM -----
COMM Diurnal variations removed
COMM IGRF(2011) updated to 2011.44 removed
COMM Average survey base station value added to datum
COMM
COMM RADIOMETRIC CORRECTIONS AND COEFFICIENTS:
COMM -----
COMM Data has been corrected for aircraft and cosmic backgrounds.
COMM Height corrected to a constant datum of 40 metres,
COMM minimum height of 10 and a maximum of 300 metres.
COMM Data has also been corrected for radon using the method described by Minty
COMM and corrected for channel interaction.
COMM
COMM
                   Tot.Count
                              Potassium Uranium
                                                    Thorium
                                        0
                    26.6 10.37
0.986 0.0514
COMM Arcft Bkg
                                                    Ο
                                          0.041
                                                     0.0549
COMM Cosmic Bkg
                   0.007434 0.009432 0.008428
COMM Height Attn
                                                    0.007510
COMM
COMM
COMM STRIPPING RATIOS:
COMM -----
    Alpha = 0.269, Beta = 0.404, Gamma = 0.758,
     a = 0.056, b = 0.004, q = -0.001
COMM
COMM
COMM
                   Channel name
                                      Format
                                                      Units
                                                                 Null
Value
COMM
COMM
COMM
                       Job code
                                           A5
COMM
                    Line number
                                           Α9
                                          I5
COMM
                       Flight
COMM
                    Flight date
                                         Α9
                                               YYYYMMDD
COMM
                      fiducial
                                       f12.1
                                                        -999999.000000
COMM
                      mga east
                                       f11.2 METRES
                                                          -99999.000000
                                       f11.2 METRES
COMM
                      mga north
                                                        -99999.000000
                                                          -999.000000
COMM
                      gda long
                                       f12.6 degrees
                                                            -99.000000
COMM
                       gda_lat
                                       f11.6 degrees
                                       f8.2 METRES
                       rad alt
                                                           -999.000000
COMM
                                        f8.2 METRES
                                                           -999.000000
COMM
                     gps height
                                                          -9999.000000
                                       f10.3 nT
COMM
                      raw mag
                                       f10.3 nT
                                                          -9999.000000
COMM
                     mag gammas
                                       f10.3 nT
                                                          -9999.000000
                  diurnal_gammas
COMM
                                       f10.3 nT
                                                          -9999.000000
COMM
                    igrf gammas
                                       f10.3 nT
COMM
                                                          -9999.000000
                        fin mag
COMM
                           dtm
                                        f8.2 METRES
                                                           -99.000000
```

6.2 Final Radiometric Located Data file

COMM				
COMM	Baigent	Geosciences	Pty.	Ltd.
COMM				
COMM				
COMM	LOCATED	DATA		
COMM				

Processing Report Page 15 of 22

```
COMM Area : Mithril Resources
COMM Company Flown by: Daishsat Pty. Ltd.
COMM Company Flown for: Tibbs & Basil
COMM Company Processed: Baigent Geosciences Pty. Ltd.
COMM
COMM AIRBORNE SURVEY EOUIPMENT:
COMM -----
COMM
COMM Aircraft
                                        : Robinson R44
COMM Magnetometer Resolution : 0.001 nT : Post Flight

COMM Magnetometer Compensation : Post Flight

COMM Magnetometer Sample Interval : 10 Hz, Approx 2.2 metres

COMM Data Acquisition : Geoof Model 2000
COMM Magnetometer
                                        : Geometrics G822 Cesium Vapour
COMM Spectrometer
                                         : Radiation Solutions RS 500
COMM Crystal Size
                                        : 16 lt downward array
COMM Spectrometer Sample Interval : 1.0 Seconds (approx 44 metres)

COMM GPS Navigation System : Novatel 951R GPS Receiver
                                        : Novatel 951R GPS Receiver
COMM GPS Navigation System
COMM
COMM
COMM
COMM AIRBORNE SURVEY SPECIFICATIONS
COMM
COMM Tibbs
                              : 090 - 270 degrees
: 50 metres
: 000 - 180 degrees
COMM Flight Line Direction
COMM Flight Line Separation
                                       :
COMM Tie Line Direction
COMM Tie Line Separation
                                                     500 metres
                                        :
COMM Basil
COMM Tie Line Direction :

COMM Tie Line Direction :

COMM Tie Line Direction :
                                             030 - 210 degrees
                                                     50 metres
                                       : 120 - 300 degrees
COMM Tie Line Separation
                                       :
                                                    500 metres
COMM Terrain Clearance
                                                40 metres (MTC)
                                       :
COMM
COMM
COMM Survey flown
                                                        June 2011
                                         :
COMM
COMM
COMM FFlight path calculated from GPS data with no differential correction.
COMM
COMM
COMM Grid notation refers to GDA/MGA Zone 53
COMM
COMM
COMM MAGNETIC DATA CORRECTIONS:
COMM -----
COMM Diurnal variations removed
COMM IGRF(2011) updated to 2011.44 removed
COMM Average survey base station value added to datum
COMM
COMM RADIOMETRIC CORRECTIONS AND COEFFICIENTS:
COMM -----
COMM Data has been corrected for aircraft and cosmic backgrounds.
COMM Height corrected to a constant datum of 40 metres,
COMM minimum height of 10 and a maximum of 300 metres.
COMM Data has also been corrected for radon using the method described by Minty
COMM and corrected for channel interaction.
COMM
                        Tot.Count Potassium Uranium
COMM
                                                                Thorium
                                         10.37
COMM Arcft Bkg
                           26.6
                                                       0
```

Processing Report Page 16 of 22

COMM F COMM	,	0.986 0.007434	0.0514 0.009432			0549 07510	
	STRIPPING RATIOS:						
COMM	Alpha = 0.269, a = 0.056, b =			0.758,			
COMM Value COMM		Channel name	•	Format	1	Units	Null
	_						
COMM		- 1 1		7.5			
COMM		Job code		A5			
COMM COMM		Line number Flight		A9 I5			
COMM		Flight date		13 A9	YYYYMMDD		
COMM		fiducial		f12.1	TTTTMMDD	-999999	000000
COMM		mga east		f11.2	METRES		.000000
COMM		mga north		f11.2	METRES		.000000
COMM		gda long		f12.6	degrees		.000000
COMM		gda lat		f11.6	degrees	-99	.000000
COMM		rad alt		f8.2	METRES	-999	.000000
COMM		gps height		f8.2	METRES	-999	.000000
COMM		baro pressure		f8.2	hPa	-999	.000000
COMM	t	emp air deg c		f5.1	DEGC	-9	.000000
COMM		live time		f6.0	MSEC	-9	.000000
COMM		raw_tot_cps		f8.0	CPS	-99	.000000
COMM		raw_pot_cps		f7.0	CPS	-99	.000000
COMM		raw_ura_cps		f7.0	CPS	-99	.000000
COMM		raw_th_cps		f7.0	CPS	-99	.000000
COMM		cosmicd_cps		f5.0	CPS	-999	.000000
COMM		fin_tot_cps		f8.1	CPS	-99	.000000
COMM		fin_pot_cps		f7.1	CPS	-99	.000000
COMM		fin_ura_cps		f7.1	CPS		.000000
COMM		fin_th_cps		f7.1	CPS	-99	.000000
COMM							

6.3 Final 256 Radiometric Data

Processing Report Page 17 of 22

```
COMM Aircraft
                                        : Robinson R44
COMM Magnetometer
                                        : Geometrics G822 Cesium Vapour
COMM Magnetometer Resolution : U.UUI III

COMM Magnetometer Compensation : Post Flight

COMM Magnetometer Sample Interval : 10 Hz, Approx 2.2 metres

GeoOZ Model 2009
COMM Spectrometer
                                        : Radiation Solutions RS 500
COMM Crystal Size : 10 It downward drift

COMM Spectrometer Sample Interval : 1.0 Seconds (approx 44 metres)

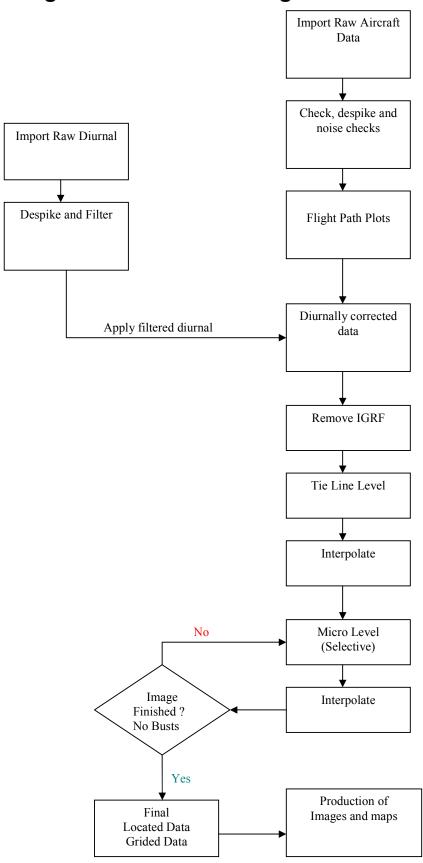
COMM CPS Navigation System : Novatel 951R GPS Receiver
COMM
COMM
COMM
COMM AIRBORNE SURVEY SPECIFICATIONS
COMM
COMM Tibbs
                              : 090 - 270 degrees
: 50 metres
COMM Flight Line Direction
COMM Flight Line Separation
                                           000 - 180 degrees
COMM Tie Line Direction
                                        :
COMM Tie Line Separation
                                                     500 metres
                                        :
COMM Basil
                              :
:
COMM Flight Line Direction
                                             030 - 210 degrees
                                                     50 metres
COMM Flight Line Separation
                                            120 - 300 degrees
COMM Tie Line Direction
COMM Tie Line Separation
                                                     500 metres
                                        :
                                               40 metres (MTC)
COMM Terrain Clearance
                                        :
COMM
COMM
COMM Survey flown
                                         :
                                                        June 2011
COMM
COMM
COMM Flight path calculated from GPS data with no differential correction.
COMM
COMM Grid notation refers to GDA/MGA Zone 53
COMM
COMM
COMM MAGNETIC DATA CORRECTIONS:
COMM -----
COMM Diurnal variations removed
COMM IGRF(2011) updated to 2011.44 removed
COMM Average survey base station value added to datum
COMM
COMM RADIOMETRIC CORRECTIONS AND COEFFICIENTS:
COMM -----
COMM Data has been corrected for aircraft and cosmic backgrounds.
COMM Height corrected to a constant datum of 40 metres,
COMM minimum height of 10 and a maximum of 300 metres.
COMM Data has also been corrected for radon using the method described by Minty
COMM and corrected for channel interaction.
COMM
COMM
                        Tot.Count Potassium Uranium
                                                                Thorium
                     26.6 10.37 0 0
0.986 0.0514 0.041 0.0549
0.007434 0.009432 0.008428 0.007510
COMM Arcft Bkg
COMM Cosmic Bkg
COMM Height Attn
COMM
COMM
COMM STRIPPING RATIOS:
COMM Alpha = 0.269, Beta = 0.404, Gamma = 0.758,
COMM a = 0.056, b = 0.004, g = -0.001
```

Processing Report Page 18 of 22

COMM COMM COMM Value COMM_	Channel name	Format	U	nits Null
COMM				
COMM	Job code	A5		
COMM	Line number	A9		
COMM	Flight	I5		
COMM	Flight date	A9	YYYYMMDD	
COMM	fiducial	f12.1		-999999.000000
COMM	mga east	f11.2	METRES	-99999.000000
COMM	mga north	f11.2	METRES	-99999.000000
COMM	gda long	f12.6	degrees	-999.000000
COMM	gda lat	f11.6	degrees	-99.000000
COMM	rad_alt	f8.2	METRES	-999.000000
COMM	gps height	f8.2	METRES	-999.000000
COMM	baro pressure	f8.2	hPa	-999.000000
COMM	temp air deg c	f5.1	DEGC	-9.000000
COMM	live time	f6.0	MSEC	-9.000000
COMM	cosmicd cps	f5.0	CPS	-999.000000
COMM COMM	raw 256 channl spectra	256i5	CPS	-9

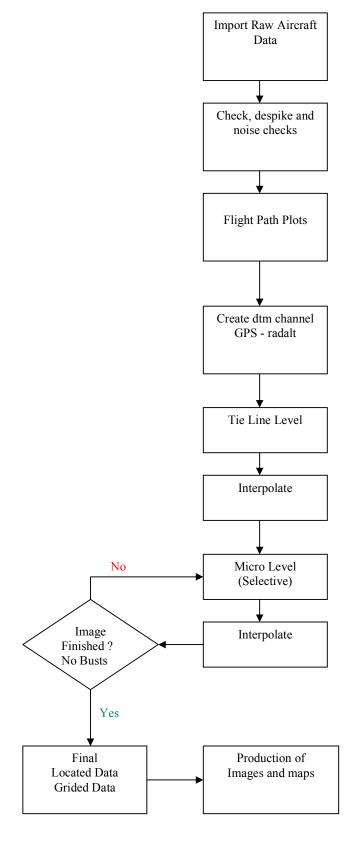
Processing Report Page 19 of 22

7. Magnetic Data Processing Flow Chart



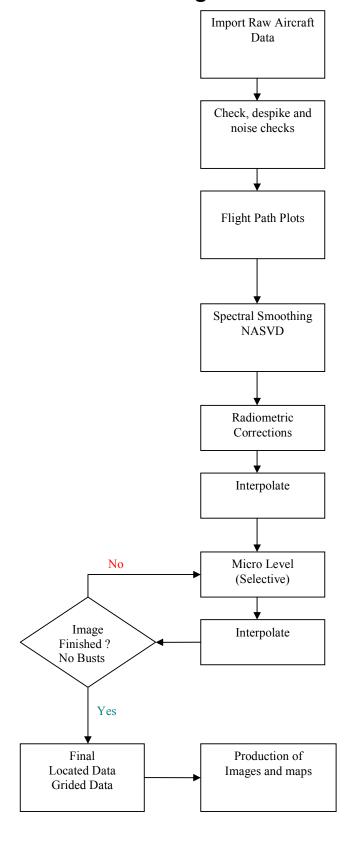
Processing Report Page 20 of 22

8. Elevation Data Processing Flow Chart



Processing Report Page 21 of 22

9. Radiometric Processing Flow Chart



Processing Report Page 22 of 22